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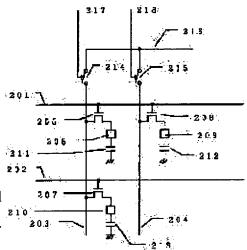
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## (54) ELECTROPHORETIC INK DISPLAY DEVICE

## (57) Abstract:

PROBLEM TO BE SOLVED: To make an electrophoretic ink display device possible to be driven with a small-sized thin film piezoelectric transformer by connecting one side of source/drain of a thin film transistor to a data line, connecting another side to the input side of the thin film piezoelectric transformer and connecting an output side to an electrode of the electrophoretic ink display element. SOLUTION: A data signal supplied to a data signal line 216 is inputted to a thin film piezoelectric transformer 208 through an analog switch 214 and a TFT 205. The voltage amplified data signal outputted from the transformer 208 is supplied to the electrode of the electric migration ink display element 211. The potential of the open/close control signal input terminal 217 of the switch 214 becomes low to be in non-conduction state. Simultaneously, the potential of the open/close control signal input terminal 218 of the analog switch 215 becomes high to be in conduction state. Thus, the data signal supplied to the data signal line 216 is inputted to the thin film piezoelectric transformer 209



through the switch 215 and the TFT 206. The data signal outputted from a transformer 209 is supplied to the electrode of the display element 212.

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